

DOCKETED

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FREEWIRE

FreeWire Technologies

Resiliency Benefits of Battery Integration

Electrification Dilemma

How to meet the demand for charging and off-grid power



Electrical supply

Cost | Availability | Speed

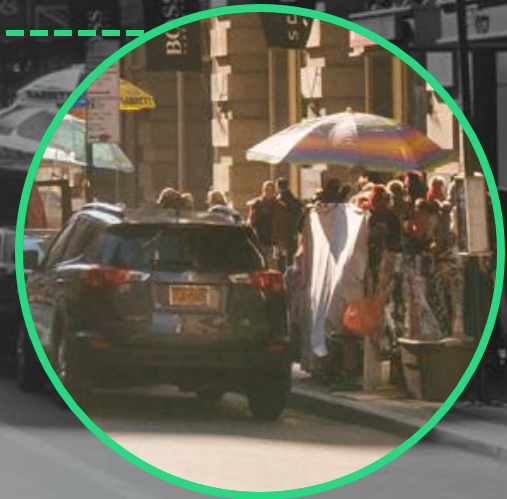


Space

Street | Home | Parking lot

Charging demand

Cars | Time | Behavior



FreeWire Technologies

Electrification beyond the grid™

FreeWire offers **flexible solutions** to power industries formerly dependent on fossil fuels.

Helping **automotive, workplace, utility, city, retail and fleet operators** deploy clean power for EV charging and broader energy needs.

World class investors include:

STANLEY
Ventures

R/GA Ventures



bp



MACQUARIE

trirec



Energy
Innovation
Capital



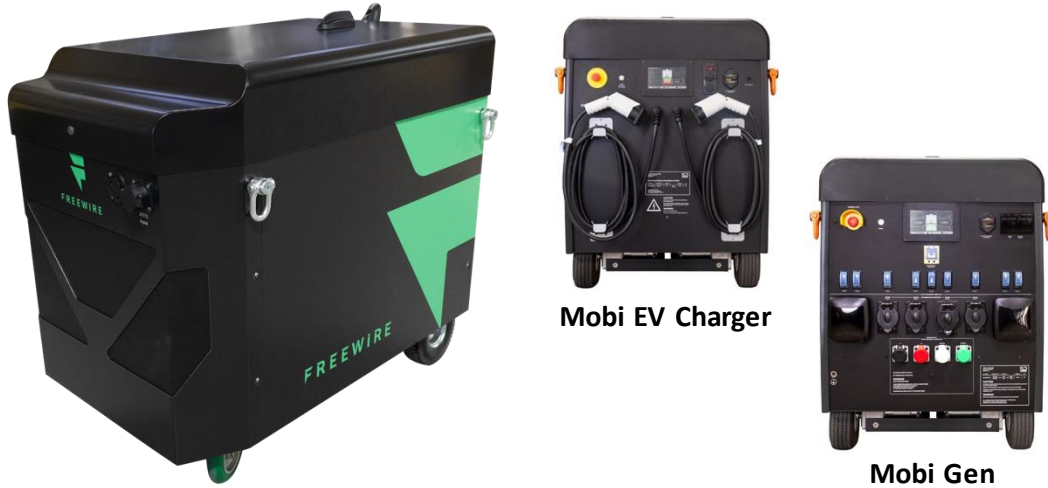
STRAWBERRY CREEK
VENTURES

Boost Charger™

Founded in 2014 in the **San Francisco Bay Area.**

FreeWire Products: Clean Power, Wherever, Whenever

Mobi®



Mobi provides flexible power for remote or critical locations.

- “Swiss-army knife” for multiple power needs
- Zero-emission alternative to generators
- Mobile for rapid deployment and relocation
- 80 kWh storage
- 7 hours of power at full load

Boost Charger™



Boost Charger features integrated energy storage technology that simplifies installation, reduces on-going costs, and unlocks more locations for EV charging.

- **120 kW** fast charging
- **160 kWh** storage
- Low-voltage grid connection
- Retrofit as needs evolve in other locations

Improving EV Charging Resiliency



Co-locate EVSEs with Storage and/or Distributed Energy Resources (DER)

- Significantly enhance overall resiliency for ZEVs
- Harden community infrastructure from outages
- Solar + storage energy storage capacity
 - **Islanded for recharging vehicles**
 - **Balance broader site loads**



FreeWire Planned Innovations



Boost Charger

Grid-down and bi-directional power flow functionality.



Mobi

DC input: plug and play power asset at existing and new solar installations.

Resiliency: Recovering from Shocks to the System

Power Sources

Battery-integrated EV charging systems provide customers with the ability to charge ZEVs, but also prioritize their energy uses during power outages.

Customer Example: UC Davis Fleet



Fleet Charging: limited electrical capacity; not practical to add more fixed chargers. Mobi is used to recharge multiple fleet vehicles overnight.

Back-up Power: Mobi can be used as back-up power to support garage and pumps for rest of fleet.

COVID-19 and Other Shocks

Zero-emission storage products may provide superior power solutions for new use cases.

1) Applications where controlling noise, protecting health, and/or safeguarding privacy are important.

Customer Example: COVID test sites at NYC hospitals



2) Remote work/SIP may increase consumer focus on the need for reliable power at home, and increase the attention on V2G or other battery storage as back-up.

Promoting Resiliency in Policy

Proposals

1. CORE-like program for resiliency applications
2. Soft-cost reduction for infrastructure-light products
 - Include into existing IOU programs
 - Fast-track interconnection
3. Incentive adder to existing programs (e.g. CALeVIP) for resiliency charging/grid down applications

Beneficiaries



Cities



Fleets



DAC Communities

Thank you!

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F R E E W I R E